

Abstract

Headlight and headlight element

The invention relates to a headlight having a multitude of headlight elements, which each have:

at least one semiconductor chip which emits electromagnetic radiation;

a primary optics element, which reduces the divergence

of the light which is incident through the light input;

at least one headlight element output, which emits a part of the headlight light from the headlight element.

At least some of the headlight element outputs are arranged in at least two groups in such a way that the arrangement of at least one of the groups and/or at least overall arrangement of headlight element outputs of multiple groups corresponds essentially to a desired emission characteristic of the headlight, in that, in particular, it has a shape which corresponds essentially to the cross-sectional shape of a desired headlight beam, wherein the semiconductor chips which belong to the headlight element outputs of one group can each be operated independently of other semiconductor chips.

The invention also relates to a headlight element which is suitable for a headlight such as this.

Figure 4